

revised sequence listing.ST25
SEQUENCE LISTING

<110> Her Majesty the Queen in Right of Canada as Represented by
the Minister of Health

<120> Anti-SARS Monoclonal Antibodies

<130> 85084-803

<150> US60/526971

<151> 2003-12-05

<150> US60/568225

<151> 2004-05-06

<160> 45

<170> PatentIn version 3.3

<210> 1

<211> 133

<212> PRT

<213> Mus musculus

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35 40 45

Gly Gly Ile Asn Pro Asn Asn Gly Gly Thr Thr Tyr Asn Gln Lys Phe
50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Asn Thr Ala Tyr
65 70 75 80

Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ser Arg Gly Asp Tyr Gly Thr Ser Tyr Gly Tyr Phe Asp Val Trp Gly
100 105 110

Ala Gly Thr Thr Val Thr Val Ser Ser Ala Lys Thr Thr Ala Pro Ser
115 120 125

Val Tyr Pro Leu Ala
130

<210> 2

revised sequence listing.ST25

<211> 128
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<213> Mus musculus

<400> 2

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Met His Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly
35 40 45

Ala Ile Tyr Pro Gly Asn Ser Asp Thr Thr Tyr Asn Gln Lys Phe Lys
50 55 60

Gly Lys Ala Lys Leu Thr Ala Val Thr Ser Thr Ser Thr Ala Tyr Met
65 70 75 80

Glu Leu Ser Ser Leu Thr Asn Glu Asp Ser Ala Val Tyr Tyr Cys Thr
85 90 95

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100 105 110

Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Ser Val
115 120 125

<210> 3
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<213> Mus musculus

<400> 3

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Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Ser Tyr Trp
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Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly
35 40 45

Ala Ile Tyr Pro Gly Asn Ser Asp Thr Ser Tyr Asn Gln Lys Phe Lys
50 55 60

Gly Lys Ala Lys Leu Thr Ala Val Thr Ser Ala Ser Thr Ala Tyr Met
65 70 75 80

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Glu Leu Ser Ser Leu Thr Asn Glu Asp Ser Ala Val Tyr Tyr Cys Thr
85 90 95

Arg Ser Val Tyr Tyr Gly Tyr Gly Tyr Phe Asp Val Trp Gly Ala Gly
100 105 110

Thr Thr Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Ser Val
115 120 125

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<211> 226

<212> PRT

<213> Mus musculus

<400> 4

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20 25 30

Trp Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Asp Trp Ile
35 40 45

Gly Ala Ile Tyr Pro Glu Asn Ser Asp Thr Ser Tyr Asn Gln Lys Phe
50 55 60

Lys Gly Lys Ala Lys Leu Thr Ala Val Thr Ser Ala Ser Thr Ala Tyr
65 70 75 80

Met Glu His Ser Ser Leu Thr Asn Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Thr Arg Ser Val Tyr Tyr Gly Tyr Gly Tyr Phe Asp Val Trp Gly Ala
100 105 110

Gly Thr Thr Val Thr Val Ser Ser Ala Lys Thr Thr Ala Pro Ser Val
115 120 125

Tyr Pro Leu Ala Pro Val Cys Gly Asp Thr Thr Gly Ser Ser Val Thr
130 135 140

Leu Gly Cys Leu Val Lys Gly Tyr Phe Pro Glu Pro Val Thr Leu Thr
145 150 155 160

Trp Asn Ser Gly Ser Leu Ser Ser Gly Val His Thr Phe Pro Ala Val
165 170 175

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Leu Gln Ser Asp Leu Tyr Thr Leu Ser Ser Ser Val Thr Val Thr Ser
180 185 190

Ser Thr Trp Pro Ser Gln Ser Ile Thr Cys Asn Val Ala His Pro Ala
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Ser Ser Thr Lys Val Asp Lys Lys Ile Glu Pro Arg Val Pro Thr Ser
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Gln Asn
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<213> Mus musculus

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Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
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Trp Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Ala Ile Tyr Pro Gly Asn Ser Asp Thr Asn Tyr Asn Gln Lys Phe
50 55 60

Lys Gly Arg Ala Thr Leu Thr Ala Val Thr Ser Thr Ala Ser
65 70 75 80

Met Glu Leu Ser Ser Leu Thr Asn Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Thr Arg Asp Gly Tyr Gly Ser Leu Tyr Tyr Tyr Ala Met Asp Phe Trp
100 105 110

Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Ala Pro
115 120 125

Ser Val Lys
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<210> 6
<211> 133

revised sequence listing.ST25

<212> PRT
<213> Mus musculus

<400> 6

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35 40 45

Gly Ala Ile Tyr Pro Gly Asn Ser Asp Thr Thr Tyr Asn Gln Lys Phe
50 55 60

Lys Asp Lys Ala Lys Leu Thr Ala Val Thr Ser Thr Ser Ser Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Thr Asn Glu Asp Ser Ala Val Tyr Phe Cys
85 90 95

Thr Arg Glu Gly Ile Pro Gln Leu Leu Arg Thr Leu Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Ala Pro Ser
115 120 125

Val Tyr Pro Leu Ala
130

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<212> PRT
<213> Mus musculus

<400> 7

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Asp Ile Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
35 40 45

Gly Ile Ile Trp Thr Gly Gly Gly Thr Ser Tyr Asn Ser Ala Phe Met
50 55 60

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Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln Val Phe Leu
65 70 75 80

Lys Met Asn Ser Leu Gln Thr Asp Asp Thr Ala Ile Tyr Tyr Cys Val
85 90 95

Arg Asp Arg Val Tyr Tyr Phe Pro Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Ser Val Thr Val Ser Ser Ala Lys Thr Thr Ala Pro Ser Val Tyr Pro
115 120 125

Leu Ala
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<210> 8
<211> 139
<212> PRT
<213> Mus musculus

<400> 8

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Val His Ser Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Lys
20 25 30

Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe
35 40 45

Thr Asn Tyr Trp Ile His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu
50 55 60

Glu Trp Ile Gly Glu Ile Asn Pro Gly Asn Gly Arg Thr Asn Tyr Asn
65 70 75 80

Gly Asn Phe Met Asn Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Asn
85 90 95

Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

Tyr His Cys Ala Arg Leu Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr
115 120 125

Val Ser Ser Ala Lys Thr Thr Pro Pro Ser Val
130 135

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<210> 9
 <211> 123
 <212> PRT
 <213> Mus musculus

<400> 9

Val Gln Leu Leu Glu Ser Gly Ala Glu Leu Val Lys Pro Gly Ala Ser
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Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr Trp
 20 25 30

Ile His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly
 35 40 45

Glu Ile Asn Pro Ser Asn Gly Arg Thr Asn Tyr Asn Gly Asn Phe Glu
 50 55 60

Ser Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Asn Thr Ala Tyr Met
 65 70 75 80

His Leu Ser Ser Leu Thr Tyr Glu Asp Ser Ala Val Tyr His Cys Thr
 85 90 95

Arg Leu Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser Ala
 100 105 110

Lys Thr Thr Ala Pro Ser Val Tyr Pro Leu Ala
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<210> 10
 <211> 120
 <212> PRT
 <213> Mus musculus

<400> 10

Asp Ile Leu Met Thr Gln Ser Pro Thr Ser Phe Ala Val Ser Leu Gly
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Gln Arg Ala Thr Ile Ser Cys Arg Thr Ser Gln Ser Val Ser Thr Ser
 20 25 30

Ser Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
 35 40 45

Lys Leu Leu Ile Lys Tyr Ala Ser Asn Leu Glu Ser Gly Val Pro Ala
 50 55 60

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Arg Phe Ser Gly Ser Gly Ser Gly Ser Asp Phe Thr Leu Asn Ile His
65 70 75 80

Pro Val Glu Glu Gly Asp Thr Ala Thr Tyr Tyr Cys Gln His Ser Trp
85 90 95

Glu Ile Pro Cys Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
100 105 110

Ala Asp Ala Ala Pro Thr Val Ser
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<210> 11

<211> 116

<212> PRT

<213> Mus musculus

<400> 11

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Glu Arg Val Ser Leu Thr Cys Arg Ala Ser Gln Glu Ile Ser Gly Tyr
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Leu Ser Trp Leu Gln Gln Lys Pro Asp Gly Thr Ile Lys Arg Leu Ile
35 40 45

Tyr Ala Ala Ser Thr Leu Asp Ser Gly Val Pro Lys Arg Phe Ser Gly
50 55 60

Ser Arg Ser Gly Ser Asp Tyr Ser Leu Thr Ile Ser Ser Leu Glu Ser
65 70 75 80

Glu Asp Phe Ala Asp Tyr Tyr Cys Leu Gln Tyr Ile Ser Tyr Pro Trp
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala
100 105 110

Pro Thr Val Ser
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<210> 12

<211> 116

<212> PRT

<213> Mus musculus

<400> 12

Asp Ile Leu Met Thr Gln Ser His Lys Cys Met Ser Thr Ser Val Gly
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1 5 10 15
 Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Ser Thr Ala
 20 25 30
 Val Val Trp Tyr Gln Gln Lys Pro Gly Gln Phe Pro Lys Leu Leu Ile
 35 40 45
 Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Asp Arg Phe Thr Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Val Gln Ala
 65 70 75 80
 Glu Asp Leu Ala Leu Tyr Tyr Cys Gln Gln His Tyr Thr Thr Pro Tyr
 85 90 95
 Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala
 100 105 110
 Pro Thr Val Ser
 115

<210> 13
 <211> 116
 <212> PRT
 <213> Mus musculus

<400> 13

Asp Ile Leu Met Thr Gln Ser His Lys Phe Met Ser Thr Ser Val Gly
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 Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Ser Thr Ala
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 Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
 35 40 45
 Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Asp Arg Phe Thr Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Val Gln Ala
 65 70 75 80
 Glu Asp Leu Ala Leu Tyr Tyr Cys Gln Gln His Tyr Ser Thr Pro Tyr
 85 90 95
 Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala
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revised sequence listing.ST25
105 110

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Pro Thr Val Ser
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<210> 14
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<212> PRT
<213> Mus musculus

<400> 14

Glu Leu Val Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Leu Gly
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Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Ser Asn Tyr
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Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys Leu Leu Ile
35 40 45

Tyr Tyr Thr Ser Arg Leu His Ala Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu Glu Gln
65 70 75 80

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Tyr Thr Leu Pro Tyr
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala
100 105 110

Pro Thr Val Ser Lys Gly Glu Phe Gln His Thr Gly Gly Arg Tyr
115 120 125

<210> 15
<211> 115
<212> PRT
<213> Mus musculus

<400> 15

Asp Ile Leu Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Leu Gly
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Glu Arg Val Ser Leu Thr Cys Arg Ala Ser Gln Glu Ile Ser Gly Tyr
20 25 30

Leu Ser Trp Leu Gln Glu Lys Pro Asp Gly Thr Ile Lys Arg Leu Ile
35 40 45

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Tyr Ala Ala Ser Thr Leu Asp Ser Gly Val Pro Lys Arg Phe Ser Gly
50 55 60

Ser Arg Ser Gly Ser Asp Tyr Ser Leu Thr Ile Ser Ser Leu Glu Ser
65 70 75 80

Glu Asp Phe Ala Asp Tyr Tyr Cys Leu Gln Tyr Val Ser Tyr Pro Trp
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala
100 105 110

Pro Thr Val
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<210> 16
<211> 110
<212> PRT
<213> Mus musculus

<400> 16

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1 5 10 15

Glu Lys Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Ile Ser Ser Asn
20 25 30

Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Ser Ser Pro Lys Leu Leu
35 40 45

Ile Tyr Arg Thr Ser Ile Leu Ala Ser Gly Val Leu Asp Thr Phe Ser
50 55 60

Gly Ser Gly Ser Glu Ser Ser Tyr Thr Leu Thr Ile Ser Cys Met Gln
65 70 75 80

Asp Glu Val Ala Ala Thr Tyr Tyr Cys Gln Gln Gly Ser Ser Ser Pro
85 90 95

Pro His Val Arg Arg Gly Asp Gln Ala Gly Asn Lys Thr Gly
100 105 110

<210> 17
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<212> PRT
<213> Mus musculus

<400> 17

revised sequence listing.ST25

Glu Leu Val Met Thr Gln Ser Pro Ala Ser Leu Ser Val Ala Thr Gly
1 5 10 15

Lys Lys Val Thr Ile Arg Cys Ile Ser Ser Thr Asp Ile Asp Asp Asp
20 25 30

Met Asn Trp Tyr Gln Gln Lys Ala Gly Lys Pro Pro Lys Leu Leu Ile
35 40 45

Ser Glu Gly Asn Ile Phe Ser Pro Gly Val Pro Ser Arg Phe Ser Ser
50 55 60

Ser Gly Asn Gly Thr Asp Phe Val Phe Thr Val Glu Asn Thr Leu Ser
65 70 75 80

Glu Asp Val Ala Asp Asn Tyr Cys Leu Gln Ser Asp Asn Met Pro Phe
85 90 95

Thr Phe Gly Ser Gly Thr Lys Leu Gly Ile Lys Arg Ala Asp Ala Ala
100 105 110

Pro Thr Val Ser
115

<210> 18
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<212> PRT
<213> Mus musculus

<400> 18

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Lys Lys Val Thr Ile Arg Cys Ile Ser Asn Thr Asp Ile Asp Asp Asp
20 25 30

Leu Asn Trp Ser Gln Leu Lys Ala Gly Glu Pro Pro Lys Leu Leu Ile
35 40 45

Ser Glu Gly Asn Ile Phe Ser Pro Gly Val Pro Ser Arg Phe Ser Ser
50 55 60

Ser Gly Asn Gly Thr Asp Phe Val Phe Thr Ile Glu Asn Thr Leu Ser
65 70 75 80

Glu Asp Val Ala Asn Asn Tyr Cys Phe Gln Ser Asp Asn Met Pro Phe
85 90 95

revised sequence listing.ST25

Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala
100 105 110

Pro Thr Val Ser
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tgcaaggctt ctggctacag ctttaccagc tactggatgc actgggtaaa acagaggcct 120

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aaccagaagt tcaagggcag ggccactg actgcagtca catccaccag cactgcctcc	240
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<210> 24
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<213> Mus musculus

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<210> 27
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<213> Mus musculus

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revised sequence listing.ST25

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<213> Mus musculus

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gggccagacc ggccgagctc gacattctga tgaccagtc tcacaaatc atgtccacat 60
cagtaggaga cagggtcagc atcacctgca aggccagtc ggatgtgagt actgctgtag 120
cctggtatca acaaaaacca gggcaatttc ctaaaactact gatttactgg gcatccacc 180
ggcaactgg agtccctgat cgcttcacag gcagtggatc tgggacagat tatactctca 240
ccatcagcag tgtgcaggct gaagacctgg cactttatta ctgtcagcaa cattatagca 300
ctccgtacac gttcggaggg gggaccaagc tggaaataaa acgggctgat gctgcaccaa 360
ctgtatcc 368
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<210> 32
<211> 350
<212> DNA
<213> Mus musculus

<400> 32
gagctcgtga tgaccagtc tccatcctcc ctgtctgcct ctctgggaga cagagtcacc 60
atcagttgca gggcaagtc ggacattagc aattatttaa actggtatca gcagaaacca 120
gatggaactg ttaaaactct gatctattac acatcaagat tacacgcagg agtcccatca 180
aggttcagtg gcagtgggtc tggaaacagat tattctctca ccattagcaa cctggagcaa 240
gaagatatgt ccatttactt ttgccaacag ggttatacgc ttccgtacac gttcggaggg 300
gggaccaagc tggaaataaa acgggctgat gctgcaccaa ctgtatccaa 350
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<210> 33
<211> 345
<212> DNA
<213> Mus musculus
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<400> 33
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revised sequence listing.ST25

gacattctga tgaccagtc tccatcctcc ttatctgcct ctctgggaga aagagtcagt	60
ctcacttgtc gggcaagtc ggaaattagt ggttacttaa gctggcttca ggagaaacca	120
gatggaacta ttaaagcct gatctacgcc gcttcactt tagattcttg tggtcccaaa	180
aggttcagtg gcagtaggtc tgggtcagat tattctctca ccatcagcag ccttgagtct	240
gaagattttg cagactatta ctgtctacaa tatgttagtt atccgtggac gttcgttgga	300
ggcaccaagc tggaaatcaa acgggctgat gctgcaccaa ctgta	345

<210> 34
 <211> 364
 <212> DNA
 <213> Mus musculus

<400> 34	
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agaaggctcac catcacctgc cgtgccagct caagtataag ttccaattac ttacactggt	120
accagcagaa gccaggatcc tcccctaacc ttttgattta taggacatcc atcttggtcat	180
ctggagtcct ggacaccttc agtggcagtg ggtctgagag ctcttacact ctgacaatca	240
gctgcatgca ggacgaagt gctgccactt actattgtca gcaggggagtg agtagccac	300
cacacgttcg gaggggggac caagctggaa ataaaacggg ctgatgtctc accaactgta	360
tcca	364

<210> 35
 <211> 359
 <212> DNA
 <213> Mus musculus

<400> 35	
gtgccagatg tgagctcgtg atgaccagtc ctccagtcata cctgtccgtg gctacaggaa	60
aaaaagctcac catcagatgc ataagcagca ctgacattga tgatgatatg aactggtacc	120
agcagaaggc agggaaacct cctaaactcc ttatttcaga aggcattatt tttagtcctg	180
gagtcctcatc ccgattctcc agcagtgga atggcacaga tttgttttt acagttgaaa	240
acacgctctc agaagatggt gcagataact actgtttgca aagtgataac atgccattca	300
cgttcggtc ggggacaaa ttgggaataa aacgggctga tgctgcacca actgtatcc	359

<210> 36
 <211> 359
 <212> DNA
 <213> Mus musculus

<400> 36	
gtgccagatg tgagctcgtg atgaccagtc ctccagtcata cctgtccgtg attacaggaa	60
aaaaagctcac catcagatgc ataagcaaca ctgacattga tgatgatttg aactggtccc	120

revised sequence listing.ST25

agctgaaggc aggagaacct cctaaactcc ttatttcaga aggcaatatt tttagtctctg	180
gagtgcccatc ccgatttctcc agcagtgga atggcacaga ttttgTTTTT acaattgaaa	240
acacgctctc agaagatgtt gcaaataact actgtttcca aagtgataac atgccattca	300
cgttcggctc ggggacaaag ttggaaataa aacgggctga tgctgcacca actgtatcc	359

<210> 37
 <211> 19
 <212> DNA
 <213> Artificial

<220>
 <223> forward rt-pcr primer for polymerase gene

<400> 37 cagagccatg cctaacatg	19
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<210> 38
 <211> 20
 <212> DNA
 <213> Artificial

<220>
 <223> reverse primer for RT-PCR of polymerase gene

<400> 38 aatgtttacg caggtgaagcg	20
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<210> 39
 <211> 18
 <212> DNA
 <213> Artificial

<220>
 <223> forward primer for nested PCR of polymerase gene

<400> 39 tgttaaacca ggtggaac	18
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<210> 40
 <211> 18
 <212> DNA
 <213> Artificial

<220>
 <223> reverse primer for nested pcr of polymerase gene

<400> 40 cctgtgttgt agattgcg	18
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<210> 41
 <211> 21
 <212> DNA
 <213> Artificial

<220>

revised sequence listing.ST25

<223> forward primer for real-time pcr of nucleoprotein

<400> 41
accagaatgg aggacgcaat g 21

<210> 42
<211> 25
<212> DNA
<213> Artificial

<220>
<223> reverse primer for real-timer pcr of nucleoprotein

<400> 42
gctgtgaacc aagacgcagt attat 25

<210> 43
<211> 16
<212> DNA
<213> Artificial

<220>
<223> TaqMan MGB probe - has 5' 6-carboxyfluorescein reporter dye

<400> 43
acccaaggt ttaccc 16

<210> 44
<211> 116
<212> PRT
<213> Mus musculus

<400> 44
Glu Leu Val Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val
35 40 45

Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn Ser Leu Gln Ser
65 70 75 80

Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Phe Trp Ser Ile Pro Tyr
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala
100 105 110

revised sequence listing.ST25

Pro Thr Val Ser
115

<210> 45
<211> 129
<212> PRT
<213> Mus musculus

<400> 45

Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Val
1 5 10 15

Ser Met Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Gly Tyr
20 25 30

Thr Met Asn Trp Val Lys Gln Ser His Gly Lys Asn Leu Glu Trp Ile
35 40 45

Gly Leu Ile Asn Pro Tyr Asn Gly Gly Thr Asn Tyr Asn Gln Lys Phe
50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Leu Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Tyr Tyr Gly Ser Ser Pro Tyr Tyr Ala Met Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Ala Pro
115 120 125

Ser